Grade 7
Mathematics

Constructed Response Scoring Guides
Winter 1999

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Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.

Ms. Perez surveyed the 25 students in her seventh grade mathematics class. She asked each student the longest number of minutes spent on one phone call in the past week. The list displays the results of Ms. Perez' survey.

SURVEY RESULTS

10	8	3	10	5
3	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	//	2
8	///	3
10	~~////~~	5
12	//	2
15	///	3
20	///	3
37	//	2
50	///	3

B Find the median and mode of the data set.

12 ↑ 10 ↑

C What interval (scale) is most appropriate to graph this data?

5 minutes

1 - 50

4 POINTS
Table, median mode and interval correct.

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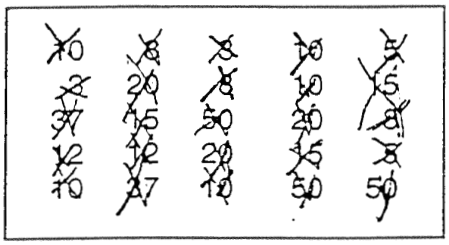
SURVEY RESULTS



A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	//	2
8	///	3
10	++++	5
12	//	2
15	///	3
20	///	3
37	//	2
50	///	3

B Find the median and made of the data set.

10=made
12=meadian

C What interval (scale) is most appropriate to graph this data?

A bar graph

3 POINTS
2 points for correct table; 1 point for correct median and mode; 0 points for incorrect interval

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10	8	8	10	5
8	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

25

3 3 5 5 8 8 8 10 10 10 10 10 12 12 15 15 15 20 20 20 37 37 50 50 50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
✓ 3	//	2
✓ 5	//	2
50	///	3
✓ 8	///	3
✓ 15	///	3
✓ 10	////	5
✓ 20	///	3
✓ 12	//	2
✓ 37	//	2

B Find the median and ~~made~~ mode of the data set.

The median is 12 and the mode is 10.

C What interval (scale) is most appropriate to graph this data?

Circle graph

3 POINTS
2 points for correct table; 1 point for correct median and mode; 0 points for incorrect interval

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10	8	3	10	5
3	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	//	2
8	///	3
10	////	5
12	//	2
15	///	3
20	///	3
37	//	2
50	///	3

B Find the median and made of the data set.

3, 5, 8, 10, 12, (15) 20, 37, 50

C What interval (scale) is most appropriate to graph this data?

you can go by the scale of twos.

2 POINTS
2 points for correct table; 0 points for incorrect median, mode and interval

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10	8	3	10	5
3	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	11	2
8	111	3
12	11	2
10	1111	5
15	111	3
20	111	3
37	11	2
50	111	3

B Find the median and made of the data set.

3 5 8 8 10 10 10 10 12 12 15 15 15 20 20 20 37 37 50 50 50

Median 10 Mode 10

C What interval (scale) is most appropriate to graph this data?

bar graph

2 POINTS
2 points for correct table; 0 points for incorrect median, correct mode and incorrect interval

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SURVEY RESULTS

10	8	8	10	8
9	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	////	5
8	///	3
10	/// //	10
12	/// //	12
15	/// //	15
20	///	20
37	/// //	37
50	/// // //	56

B Find the median and made of the data set.

median 12 made - 50

C What interval (scale) is most appropriate to graph this data?

Bar graph

1 POINT

1 point for minutes listed correctly in table incorrect tally and frequency; 0 points for correct median but incorrect mode and interval

Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.

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10	8	3	10	5
3	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	50	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
5	////	4
8	//////	7
15	//////////	14
20	//////////	19
12	//////////	11

B Find the median and made of the data set.

C What interval (scale) is most appropriate to graph this data?

0 POINTS
Incomplete table; median, mode and interval omitted

Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.

Ms. Perez surveyed the 25 students in her seventh grade mathematics class. She asked each student the longest number of minutes spent on one phone call in the past week. The list displays the results of Ms. Perez' survey.

SURVEY RESULTS

10	8	8	10	5
8	20	8	10	15
37	15	50	20	8
12	12	20	15	5
10	37	10	58	50

A Complete this frequency chart for the data.

LENGTH OF TELEPHONE CALLS

Number Of Minutes	Tally	Frequency
3	//	2
4		0
5 - 10	𝍸 𝍸	10
11 - 16	𝍸	5
17 - 22	///	3
23 - 28		0
29 - 34	/	1
35 - 40		0
41 - 50	///	3

00012335 10

B Find the median and mode of the data set.

median = 2

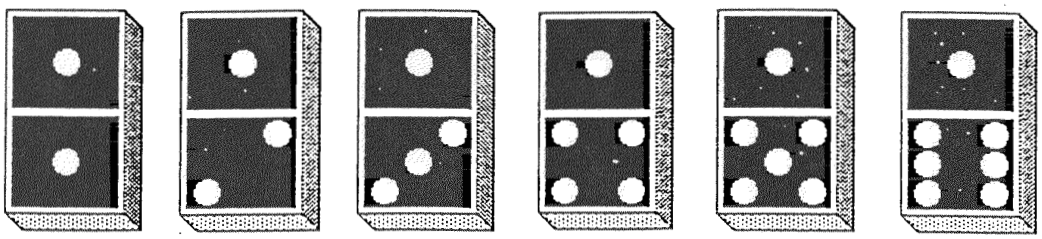
mode = 0

C What interval (scale) is most appropriate to graph this data?

frequency scale

0 POINTS
Number of minutes listed incorrectly; median, mode and interval incorrect

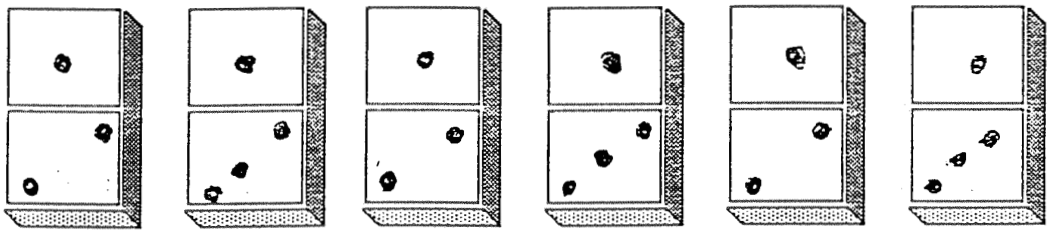
Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

They all have one on top. At the bottom it starts with one and keeps adding one on each till it reaches six.

B Draw another domino pattern different from the one above.

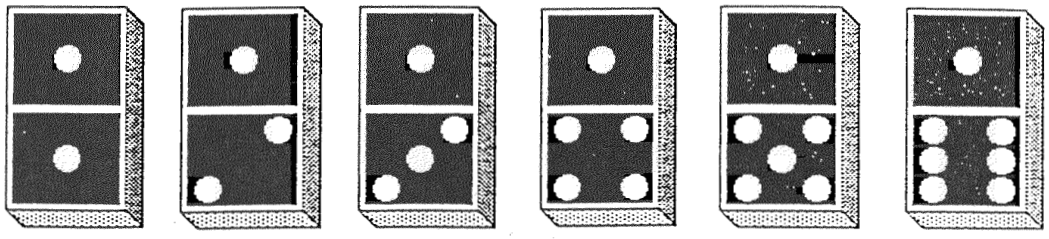


C Describe the pattern you drew.

On the first, third, and fifth, dominoes I drew one on top & two on bottom. On the second, fourth, and sixth, I put one on top & three on the bottom

4 POINTS
Parts A, B and C correct.

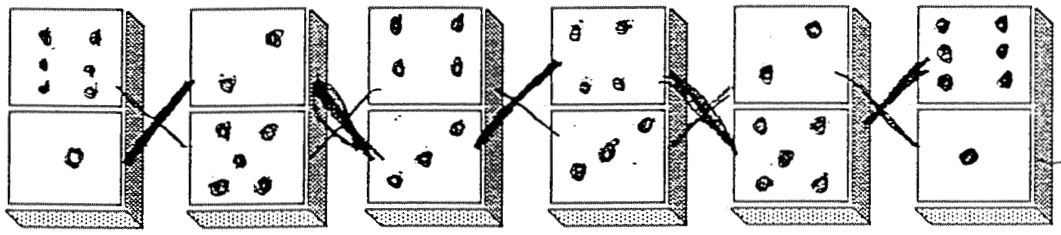
Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

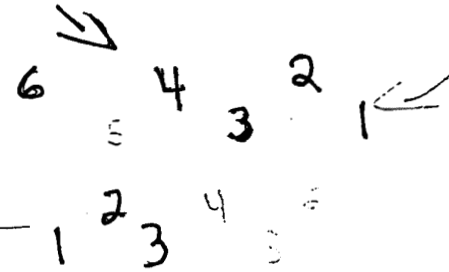
It goes 1, 2, 3, 4, 5, 6.

B Draw another domino pattern different from the one above.



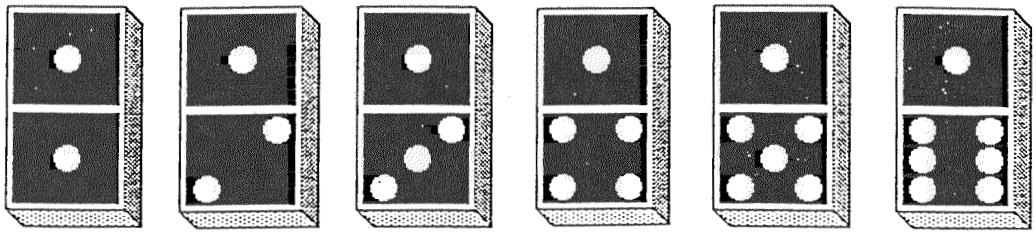
C Describe the pattern you drew.

It goes up and down like



3 POINTS
Description in Part A incomplete. Parts B and C correct.

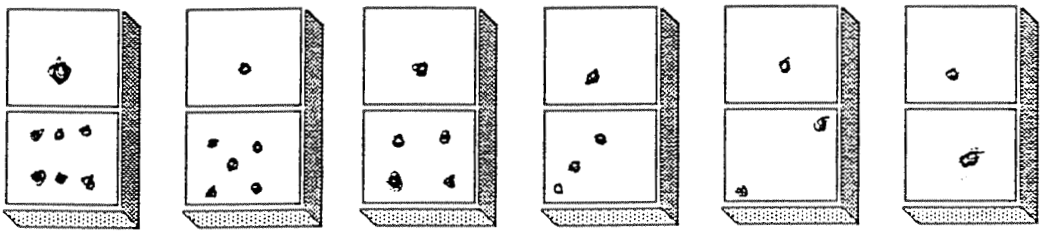
Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

The dominoes display 1, 2, 3, 4, 5, 6.

B Draw another domino pattern different from the one above.

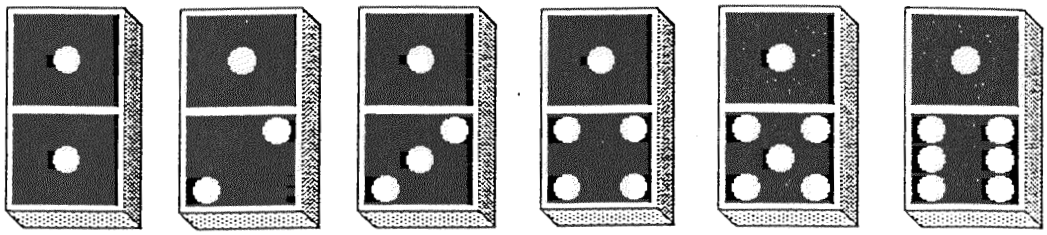


C Describe the pattern you drew.

I drew 6, 5, 4, 3, 2, 1.

2 POINTS
Parts A and C incomplete. Part B contains a correct, new pattern.

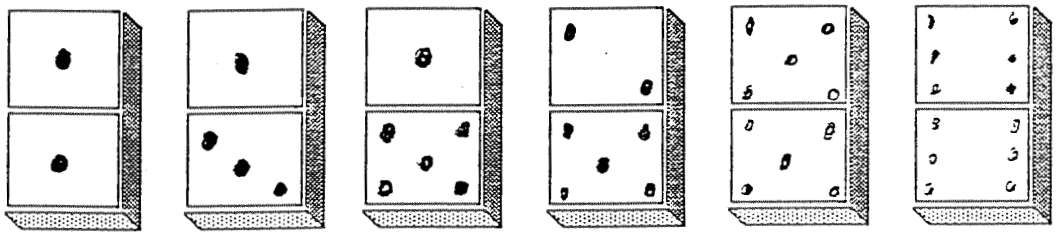
Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

1-7

B Draw another domino pattern different from the one above.

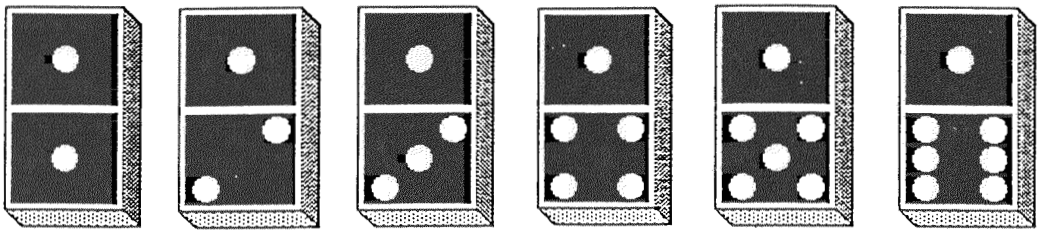


C Describe the pattern you drew.

The add up to Even numbers 2,4,6,8,10,12

2 POINTS
Part A incomplete. Part B contains minor error. Part C correct.

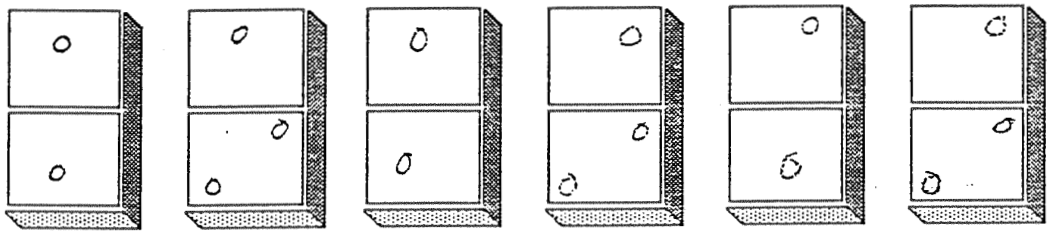
Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

Number order .234567

B Draw another domino pattern different from the one above.

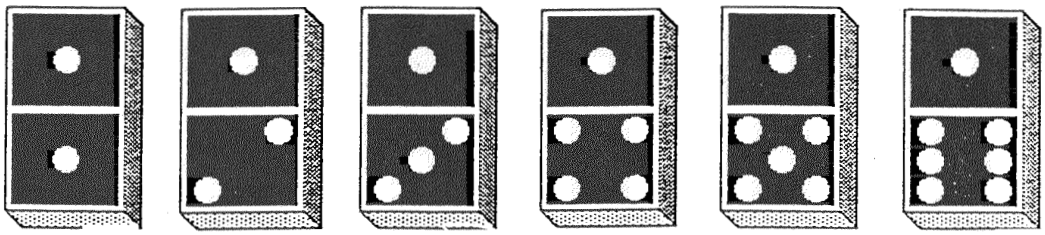


C Describe the pattern you drew.

2,3,2,3,2,3
The Pattern I drew
was Two, three, Two, Three, Two, Three, Two

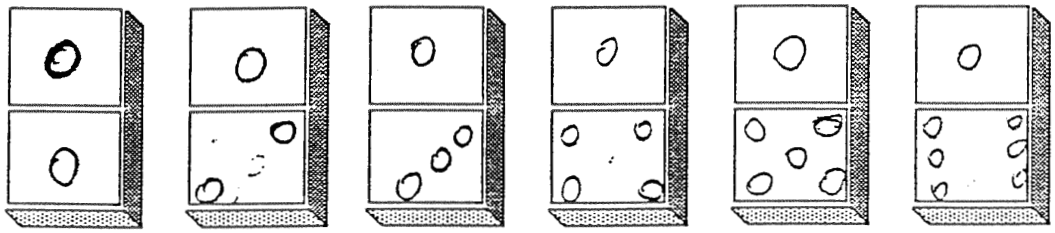
1 POINT Part B Correct. Parts A and C incomplete.

Directions: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.

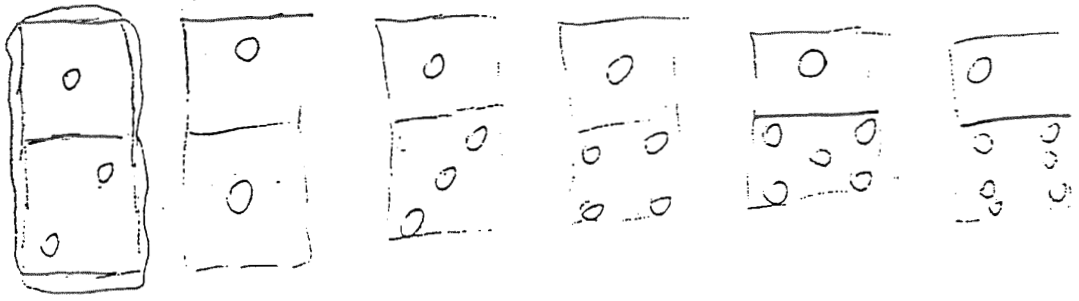


A What pattern do these dominoes display?

B Draw another domino pattern different from the one above.

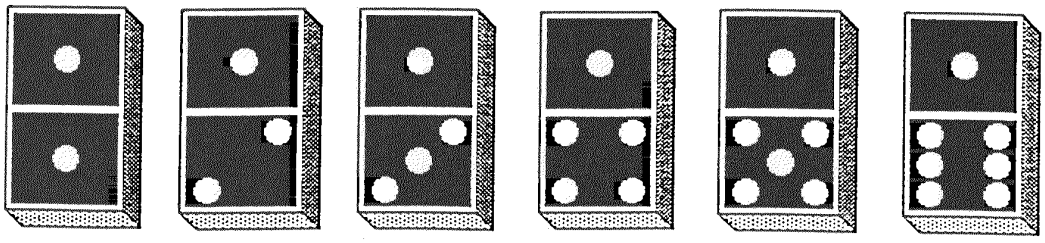


C Describe the pattern you drew.



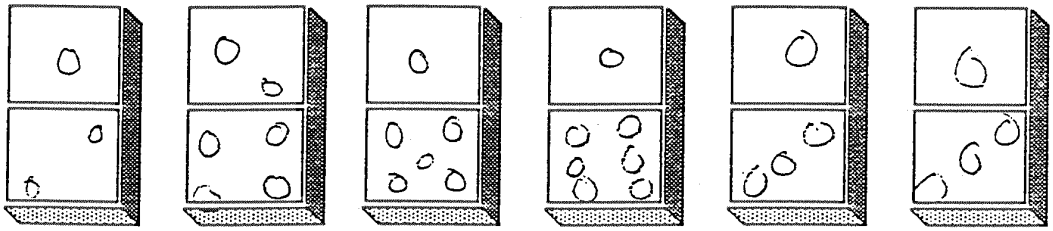
0 POINTS
Part A omitted. Parts B and C repeat problem in Part A.

irections: Solve the following problem. There may be more than one way to answer correctly. Show as much of your work as possible.



A What pattern do these dominoes display?

B Draw another domino pattern different from the one above.



C Describe the pattern you drew. I use ever other 5 numbers to find my answer

0 POINTS
Shows no understanding of the content of the problem.